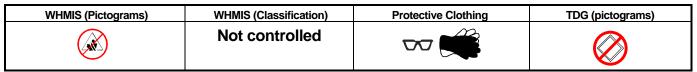
Material Safety Data Sheet





Section 1. Chemical Product and Company Identification				
Product Name	SNOWMOBILE MOTOR OIL	Code	460-401-8, PSNOL	
Synonym	Not available	Validated o	n 5/28/2001.	
Manufacturer		In case of Emergency Petro-Canada: 403-296-30 Canutec Transportation: 613-996-6666 Poison Control Centre: C		
Material Uses	Low ash engine oil specifically designed to lubricate two-cycle snowmobile engine		local telephone directory fo emergency number(s).	

Section 2. Composition and Information on Ingredients						
			Exposure Limits (ACGIH)			
	Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
1) Severely hydrotreated paraffinic oil and additives.		Mixture	100	5 mg/m³ (oil mist)	10 mg/m³ (oil mist)	Not established
Manufacturer Recommendation	Not applicable					
Other Exposure Limits Consult local, state, provincial or territory authorities for acceptable exposure limits.						

Section 3. Hazards Identification.				
Potential Health Effects	Non irritating to slight transient irritation to skin and eyes, but no permanent damage. Relatively non-toxic via ingestion. This product has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions. Upon heating to high temperatures, or mechanical actions which may produce vapours or mists, inhalation of product may cause irritation of the breathing passages. For more information, refer to Section 11.			

Section 4. First Aid Measures		
Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.	
Skin Contact	Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.	
Inhalation	Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. Allow the victim to rest in a well ventilated area. Seek medical attention.	
Ingestion	DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.	
Note to Physician	Not available	

Section 5. Fire-fighting Measures				
Flammability	May be combustible at high temperature.	Flammable Limits	Not available	
Flash Points	OPEN CUP: 152°C (305.6°F) (Cleveland)	Auto-Ignition Temperature	Not available	
Fire Hazards in Presence of Various Substances			Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.	
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), smoke and irritating vapours as products of incomplete combustion.			
Fire Fighting Media and Instructions	NAERG96, GUIDE 171, Substances (low to moderate hazard). If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. SMALL FIRE: use DRY chemicals, foam, water spray or CO2. LARGE FIRE: use water spray, fog or foam. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. For all indoor fires and any significant outdoor fires, SCBA is required. Respiratory and eye protection are required for fire fighting personnel.			

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Section 6. Accidental Release Measures

Material Release or Spill

NAERG96, GUIDE 171, Substances (low to moderate hazard). ELIMINATE ALL IGNITION SOURCES. Avoid contact. Stop leak if without risk. Contain spill. Absorb with inert absorbents, dry clay, or diatomaceous earth. Avoid inhaling dust of diatomaceous earth for it may contain silica in very fine particle size, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber. DO NOT FLUSH TO SEWERS, STREAMS OR OTHER BODIES OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled material and empty containers. Notify the appropriate authorities immediately.

Section 7. Handling and Storage		
Handling	Avoid inhalation and skin contact especially when handling used oil. Keep away from sources of ignition. DO NOT reuse empty containers without commercial cleaning or reconditioning. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.	
Storage	Store in tightly closed containers in cool, dry, isolated, well-ventilated area, and away from incompatibles.	

Section 8. Exposure Controls/Personal Protection

Engineering Controls For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.

Personal Protection - The selection of personal protective equipment varies, depending upon conditions of use.

Eyes Eye protection (i.e., safety glasses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.

Body Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.

Respiratory Where concentrations in air may exceed the occupational exposure limits given in Section 2 (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation

Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.

Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Viscous liquid.	Viscosity	21.1 cSt @ 40°C, 4.5 cSt @ 100°C, VI=127.
Colour	Blue-green	Pour Point	<-54°C
Odour	Mild petroleum oil like.	Softening Point	Not applicable.
Odour Threshold	Not available	Dropping Point	Not applicable.
Boiling Point	Not available	Penetration	Not applicable.
Density	0.88 kg/L @ 15°C (59°F).	Oil / Water Dist. Coefficient	Not available
Vapour Density	Not available	Ionicity (in water)	Not available
Vapour Pressure	Negligible at ambient temperature and pressure.	Dispersion Properties	Not available
Volatility	Non-volatile.	Solubility	Insoluble in water.

Section 10. Stability and Reactivity			
Corrosivity	Not available		
Stability	The product is stable under normal handling and storage conditions.	Hazardous Polymerization	Will not occur under normal working conditions.
Incompatible Substances / Conditions to Avoid	Reactive with oxidizing agents, reducing agents and acids.	Decomposition Products	May release COx, NOx, aldehydes, methacrylate monomers, smoke and irritating vapours when heated to decomposition.

Section 11. Toxicological I	Section 11. Toxicological Information		
Routes of Entry	Skin contact, eye contact, inhalation and ingestion.		
Acute Lethality	Based on toxicity of components. Acute oral toxicity (LD50): >5000 mg/kg (rat). Acute dermal toxicity (LD50): >2000 mg/kg (rabbit). Acute inhalation toxicity (LC50): >2500 mg/m³/4h (rat).		
Chronic or Other Toxic Effects Dermal Route:	Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.		
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Negligible breathing hazard at normal temperatures (up to 38°C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.
Low toxicity; has laxative effect.
Repeated or prolonged contact may cause transient irritation, but no permanent damage.
Not available
This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.
This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.
Based on actual test results of base oils and results of similar products, severely hydrotreated base oils give negative results when tested for: (a) Salmonella Typhimurium TA98 using the Modified Ames Assay for Petroleum Product; (b) Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay (Ames test) with a Confirmatory Assay; (c) Structural Chromosomal Aberrations in Chinese Hamster Ovary (CHO) Cells.
This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.
This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.
This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.
This product is not known to contain any chemicals at reportable quantities that are listed as group 1, 2A or 2B carcinogens by IARC.
This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.
Not available
This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.
No additional remark.

Section 12. Ecological Information			
Environmental Fate	Not available	Persistance/ Not available Bioaccumulation Potential	
BOD5 and COD	Not available	Products of Not available Biodegradation	
Additional Remarks	No additional remark.		

Section 13. Dispo	osal Considerations
Waste Disposal	Spent/used/waste oil may meet the requirements of a hazardous waste. Consult your local or regional authorities. Preferred waste management priorities are: (1) recycle or reprocess; (2) incineration with energy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and local disposal regulations.

Section 14. Transport Information					
TDG Classification	Not controlled under TDG (Canada).	Special Provisions for Transport	Not applicable.		

Section 15. Regulatory Information						
Other Regulations	This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DSL (Domestic Substances List).					
	All components of this formulation are listed on the US EPA-TSCA Inventory.					
	All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).					
	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.					
	Please contact Product Safety for more information.					
DSD/DPD (Europe)	Not classified under the Dangerous Substances or Dangerous Preparations Directives.	HCS (U.S.A.)	Not controlled under the HCS (United States).			
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SNOWMOBILE MOTOR	SNOWMOBILE MOTOR OIL Page Number: 4					
ADR (Europe) (Pictograms)		DOT (U.S.A) (Pictograms)				
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity 0	NFPA (U.S.A.) Health The Hazard Reactivity Specific hazard	Rating 0 Insignificant 1 Slight 2 Moderate 3 High			
	Personal Protection B		4 Extreme			

Section 16. Other Information

References

Available upon request.

* Marque de commerce de Petro-Canada - Trademark

Glossarv

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous goods by Road (Europe) ASTM - American Society for Testing and Materials (

BOD5 - Biological Oxygen Demand in 5 days

CAN/CGA B149.2 Propane Installation Code

CAS - Chemical Abstract Services

CEPA - Canadian Environmental Protection Act

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act

CFR - Code of Federal Regulations

CHIP - Chemicals Hazard Information and Packaging Approved Supply List

COD5 - Chemical Oxygen Demand in 5 days CPR - Controlled Products Regulations

DOT - Department of Transport

DSCL - Dangerous Substances Classification and Labeling (Europe)

DSD/DPD - Dangerous Substances or Dangerous Preparations Directives (Europe)

DSL - Domestic Substance List

EEC/EU - European Economic Community/European Union

EINECS - European Inventory of Existing Commercial Chemical Substances

EPCRA - Emergency Planning and Community Right to Know Act

FDA - Food and Drug Administration

FIFRA - Federal Insecticide, Fungicide and Rodenticide Act

HCS - Hazardous Communication System HMIS - Hazardous Material Information System

IARC - International Agency for Research on Cancer

IRIS - Integrated Risk Information System LD50/LC50 - Lethal Dose/Concentration kill 50%

LDLo/LCLo - Lowest Published Lethal Dose/Concentration

NAERG'96 - North American Emergency Response Guide Book (1996)

NFPA - National Fire Prevention Association

NIOSH - National Institute for Occupational Safety & Health

NPRI - National Pollutant Release Inventory

NSNR - New Substances Notification Regulations (Canada)

NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

SARA - Superfund Amendments and Reorganization Act

SD - Single Dose

STEL - Short Term Exposure Limit (15 minutes)

TDG - Transportation Dangerous Goods (Canada)

TDLo/TCLo - Lowest Published Toxic Dose/Concentration

TLm - Median Tolerance Limit TLV-TWA - Threshold Limit Value-Time Weighted Average

TSCA - Toxic Substances Control Act

USEPA - United States Environmental Protection Agency

USP - United States Pharmacopoeia

WHMIS - Workplace Hazardous Material Information System

For Copy of MSDS

Lubricants:

Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564

Ontario & Central Canada, telephone: 1-800-268-5850 and (905) 822-4222; fax:

Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 800-201-6285

For Product Safety Information: (905) 804-4752

Prepared by Product Safety - TAR on 5/28/2001.

Data entry by Product Safety - JDW.

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